

## Table 2. Metric Conversions

(See <http://microimg.com/science> for conversion of many various units of measure)

### Mass:

1.0 Avoirdupois pound (lb) = 0.454 kilogram (kg) = 454 grams (g)  
1.0 kilogram (kg) = 2.2 pounds (lb) = 35.2 Avoirdupois ounces (oz) = 32.15 Troy ounces  
1.0 Avoirdupois ounce (oz) = 0.9115 Troy ounce = 0.0284 kilograms (kg) = 28.4 grams (g)  
1 short ton (T) = 2000 pounds (lb) = 907.2 kilograms (kg) = 0.893 Long ton = 0.907 metric tonne

### Length:

1 inch (in) = 2.54 centimeters (cm)  
1 centimeter (cm) = 0.394 inch (in)  
1 foot (ft) = 30.48 centimeter (cm)  
1 yard (yd) = 91.44 centimeter (cm) or 0.9144 meter (m)  
1 meter (m) = 3.28 feet (ft) or 1.0936 yard (yd)  
1 mile (mi) = 1.61 kilometers (km)  
1 kilometer (km) = 0.621 mile (mi)

### Volume:

1 quart (qt) = 0.946 liter (L)  
1 liter (L) = 1.057 quart (qt)  
1 cup (c) = 0.24 liter (L)  
1 pint (pt) = 0.47 liter (L)  
1 quart (qt) = 0.95 liter (L)  
1 U.S. bushel (bu) = 35.24 liters (L)  
1 liter (L) = 0.2838 bushel (bu)  
1 U.S. gallon (gal) = 3.785 liters (L)  
1 liter (L) = 0.2642 gallon (gal)  
1 cubic foot ( $\text{ft}^3$ ) = 28.32 liters (L)  
1 cubic yard ( $\text{yd}^3$ ) = 0.76 cubic meter ( $\text{m}^3$ )  
1 liter (L) = 61.02 cubic inches ( $\text{in}^3$ )

### Area:

1 acre = 0.4047 hectares  
1 hectare = 2.47 acres  
1 square meter ( $\text{m}^2$ ) = 1550 square inches ( $\text{in}^2$ ) = 1.196 square yards ( $\text{yd}^2$ ) = 10.76 square feet ( $\text{ft}^2$ )  
1 square inch ( $\text{in}^2$ ) = 6.45 square centimeters ( $\text{cm}^2$ )  
1 square foot ( $\text{ft}^2$ ) = 0.0929 square meters ( $\text{m}^2$ )

### Energy/Work:

1 Joule (J) = 0.00094 British thermal units (BTU)  
1 British thermal unit (BTU) = 1055 Joules (J) = 0.252 kilocalories (kcal)